



36AM3 HALF-WAVE VACUUM RECTIFIER

7-PIN MINIATURE TYPE

36AM3

GENERAL DATA

Electrical:

Heater♦, for Unipotential Cathode:

Voltage (AC or DC):

Entire heater (Pins 3 and 4) 36 ± 10% volts

Tap-section (Pins 3 and 6) 32 ± 10% volts

Current:

Tap-section (Pins 3 and 6) 0.1 amp

Mechanical:

Operating Position Any

Maximum Overall Length 2-5/8"

Maximum Seated Length 2-3/8"

Length, Base Seat to Bulb Top (Excluding tip) 2" ± 3/32"

Diameter 0.650" to 0.750"

Dimensional Outline See General Section

Bulb T5-1/2

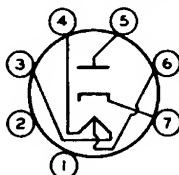
Base Small-Button Miniature 7-Pin (JEDEC No. E7-1)

Basing Designation for BOTTOM VIEW 5BQ

Pin 1—No Connec-
tion

Pin 2—No Connec-
tion

Pin 3—Heater



Pin 4—Heater

Pin 5—Plate

Pin 6—Heater Tap

Pin 7—Cathode

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Maximum Ratings, Design-Maximum Values:

PEAK INVERSE PLATE VOLTAGE 365 max. volts

PEAK PLATE CURRENT 530 max. ma

DC OUTPUT CURRENT 82 max. ma

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode 350† max. volts

Heater positive with respect to cathode 200▲ max. volts

Typical Operation:

In accompanying typical half-wave circuit with capacitor input to filter

AC Plate Supply Voltage (RMS) 117 volts

Filter-Input Capacitor 40 μf

Total Effective Plate

Supply Resistance ♦

DC Output Current 75 ma

DC Output Voltage 105 volts

Characteristics:

Tube-Voltage Drop for plate ma. = 150 20 volts

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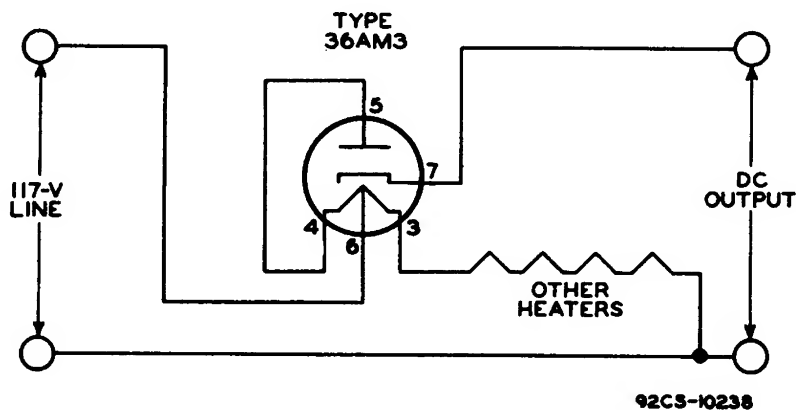
- ♦ See Operating Considerations.
† The dc component must not exceed 350 volts.
▲ The dc component must not exceed 100 volts.

OPERATING CONSIDERATIONS

The heater of the 36AM3 is designed so that the heater section between pins 4 and 6 is used as a limiting resistance in the rectifier plate circuit (See accompanying *Typical Half-Wave Circuit*).

This type is not designed for use with a panel lamp where the heater section between pins 4 and 6 is used as a panel-lamp shunt.

TYPICAL HALF-WAVE CIRCUIT



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